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NOTICE OF ALLOWANCE AND FEE(S) DUE

26161

7590

07/13/2009

FISH & RICHARDSON PC P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022 EXAMINER

BHARADWAJ, KALPANA

ART UNIT PAPER NUMBER

2129

DATE MAILED: 07/13/2009

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/826,950	04/16/2004	Stephen K. Pinto	17146-0004001	1603	

TITLE OF INVENTION: PREDICTIVE MODEL AUGMENTATION BY VARIABLE TRANSFORMATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	10/13/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

indicated unless correct maintenance fee notification	correspondence including ted below or directed oth ations.	ng the Patent, advance of nerwise in Block 1, by (a	rders and notification a) specifying a new c	of m orres	naintenance fees w pondence address;	and/o	mailed to the current (b) indicating a sepa	correspo urate "FE	endence address as E ADDRESS" for
CURRENT CORRESPONI		Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.							
FISH & RICH P.O. BOX 1022 MINNEAPOLI	ARDSON PC	/2009		State	reby certify that the es Postal Service we essed to the Mail	is Fee(vith suf . Stop	e of Mailing or Trans s) Transmittal is being ficient postage for fir ISSUE FEE address 1) 273-2885, on the d	g deposite st class m above, c	nail in an envelope or being facsimile
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFI	RMATION NO.
10/826,950 TITLE OF INVENTION	04/16/2004 N: PREDICTIVE MODE	L AUGMENTATION BY	Stephen K. Pinto Y VARIABLE TRANS		RMATION	1	7146-0004001		1603
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	\top	DATE DUE
nonprovisional	YES	\$755	\$300		\$0		\$1055		10/13/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS		\neg				
BHARADWAJ, KALPANA 2129			706-021000						
"Fee Address" in PTO/SB/47; Rev 03-Number is required 3. ASSIGNEE NAME APLEASE NOTE: Ur	AND RESIDENCE DATA	"Indication form led. Use of a Customer A TO BE PRINTED ON ' ified below, no assignee	data will appear on t	ip to rnative single or a attor ll be por typ	3 registered patentiely, efirm (having as a gent) and the naminers or agents. If printed. e) atent. If an assign	memb es of u no nan	er a 2 p to le is 3	ocument	has been filed for
(A) NAME OF ASSI	th in 37 CFR 3.11. Comp IGNEE riate assignee category or		(B) RESIDENCE: (C	CITY	and STATE OR C		ŕ	oup entity	Government
4a. The following fee(s) Issue Fee Publication Fee (I) Advance Order	 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 								
a. Applicant claim NOTE: The Issue Fee an	atus (from status indicate ns SMALL ENTITY statund Publication Fee (if req	us. See 37 CFR 1.27.	d from anyone other th		-		ΓΙΤΥ status. See 37 C.		
interest as shown by the	records of the United Sta	ites Patent and Trademark	COffice.						
Authorized Signature	2				Date				
Typed or printed name					Registration N	lo			
an application. Confider	nation is required by 37 C ntiality is governed by 35 ed application form to the tions for reducing this bu Virginia 22313-1450. DC 313-1450.	U.S.C. 122 and 37 CFR	1.14. This collection i	is esti	imated to take 12 i	minutes	to complete, including on the amount of ti	ng gatheri	ng, preparing, and

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10/826,950	04/16/2004	Stephen K. Pinto	17146-0004001	1603		
26161 7590 07/13/2009			EXAMINER			
FISH & RICHA	RDSON PC		BHARADWAJ, KALPANA			
P.O. BOX 1022			ART UNIT	PAPER NUMBER		
MINNEAPOLIS,	MINNEAPOLIS, MN 55440-1022			2129		
		DATE MAILED: 07/13/2009				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 377 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 377 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(a)		
	Application No.	Applicant(s)		
Notice of Allowability	10/826,950	PINTO ET AL.		
Notice of Allowability	Examiner	Art Unit		
	KALPANA BHARADWAJ	2129		
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communical IGHTS. This application is subjection	s application. If not included ation will be mailed in due course		
1. This communication is responsive to <u>04/01/2009</u> .				
2. ☑ The allowed claim(s) is/are <u>1-14</u> .				
 3. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 	e been received.			
Copies of the certified copies of the priority do	cuments have been received in	this national stage application fro	m the	
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the requirement	ents	
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			E OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review(F	TO-948) attached		
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	e			
(b) ☐ including changes required by the attached Examiner'Paper No./Mail Date	s Amendment / Comment or in t	he Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			of	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			e	
Attachment(s)	5 D Notice of Inform	od Detect Application		
1. Notice of References Cited (PTO-892)	5. Notice of Inform	• •		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6.	Date		
3. Information Disclosure Statements (PTO/SB/08),	7. 🔲 Examiner's Am	endment/Comment		
Paper No./Mail Date <u>04/01/2009</u> ; <u>03/19/2009</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's Sta	ement of Reasons for Allowance)	
of Biological Material	9.			
/Bharadwaj Kalpana/				
Examiner, Art Unit 2129				



Application No.

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

Claims 1-14 are considered allowable since when reading the claims in light of the specification, as per MPEP §2111.01, none of the references of record alone or in combination disclose or suggest the combination of limitations specified in independent claims, including an invention of a machine-based method comprising receiving historical multi-dimensional data representing multiple source variables to be used as an input to a predictive model of a commercial system, the source variables including nominal variables or ordinal variables (defined at e.g. ¶ 0005).

Specifically, independent claims 1, 6 and 8 disclose assigning a status to each source variable, the status comprising the variable being a predictor primary variable or a transformed variable (defined at e.g. ¶ 0032); applying a first set of transformations to the source variables, the first set of transformations being selected to increase predictive power (defined at e.g. ¶ 0209); and applying a second set of transformation to the data, the second set of transformations being selected based on strength of measurement represented by a variable (defined at e.g. ¶ 0004).

A practical application of the invention is in the field of applied targeted marketing (defined at e.g. \P 0002).

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Correspondence Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KALPANA BHARADWAJ whose telephone number is (571)270-1641. The examiner can normally be reached on Monday-Friday 7:30am 5:00 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Vincent can be reached on (571) 272-3080. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Bharadwaj Kalpana/ Examiner, Art Unit 2129 /David R Vincent/ Supervisory Patent Examiner, Art Unit 2129